

## CLAIMS

What is claimed is:

- 1 1. A user interface for a handheld communication device, comprising a main screen  
2 segregated into a number of screen areas, at least one of the screen areas devoted to a  
3 system window in which a system application for displaying status icons for the handheld  
4 communication device executes, and another of the screen areas devoted to an application  
5 window in which a browser executes to display an HTML page having current or recent  
6 application information for respective user applications, which user applications may be  
7 accessed through interaction with the browser.
- 1 2. The user interface of claim 1 wherein the application information comprises user  
2 application status information.
- 1 3. The user interface of claim 1 wherein the application information comprises recent  
2 communication messages to or from the handheld communication device.
- 1 4. The user interface of claim 3 wherein the communication messages comprise one or  
2 more of e-mail messages, short messaging service messages, or instant messaging service  
3 messages.
- 1 5. The user interface of claim 1 wherein the application information comprises one or  
2 more upcoming events or to do items for a user of the handheld communication device.

1 6. The user interface of claim 1 wherein the user interaction comprises one or more of:  
2 selection with a pointing device or selection using voice commands.

1 7. The user interface of claim 6 wherein the pointing device comprises one or more of: a  
2 stylus, a fingertip stylus, a finger, or one or more buttons.

1 8. The user interface of claim 1 wherein segregated comprises being divided into rows as  
2 in a table.

1 9. The user interface of claim 1 wherein the status icons comprise one or more of: a logo  
2 icon, a program group icon, an application name icon, a battery life indicator icon, a current  
3 time indicator icon, a received signal strength indicator icon, a help icon, a voice mail  
4 indicator icon, an input toggle icon, a backpack software icon, or a Bluetooth icon.

1 10. The user interface of claim 1 wherein the user applications comprise one or more of:  
2 communication applications, personal information management applications, personal  
3 productivity applications, multimedia applications, or game applications.

1 11. The user interface of claim 10 wherein the communication applications comprise one  
2 or more of: a telephone dialer, an e-mail application, a short messaging service application,  
3 an Internet browser, a wireless access protocol browser, an instant messenger application,  
4 or a Bluetooth communication application.



5 media information, flash animation information, banner ads, packet video information, gif  
6 animations, image files, or multimedia information.

1 20. The user interface of claim 19 wherein the area reserved for displaying advertising  
2 information is located at the bottom of the application window.

1 21. The user interface of claim 1 wherein the system window includes an area reserved for  
2 display of a logo icon.

1 22. The user interface of claim 21 wherein selection of the logo icon causes a folder menu  
2 to be displayed on a display of the handheld communication device.

1 23. The user interface of claim 22 wherein the folder menu includes an area reserved for a  
2 listing of recently used ones of the user applications.

1 24. The user interface of claim 22 wherein the recently used ones of the user applications  
2 are displayed as icons within the reserved area.

1 25. The user interface of claim 22 wherein the folder menu comprises a dropdown menu of  
2 available application groups for the handheld communication device.

1 26. The user interface of claim 25 wherein the application groups include one or more of:  
2 an all application group, a communication application group, a multimedia application  
3 group, a personal productivity application group, a main application group that includes a  
4 personal information manager application, a games application group, a system application  
5 group, and a user personal applications group.

1 27. The user interface of claim 25 wherein selection of one of the application groups  
2 causes a window that includes images representing those of the user applications that  
3 belong to the selected application group to be opened.

1 28. A handheld communication device comprising a display unit coupled to a processor  
2 having access to a computer-readable storage medium having stored therein computer-  
3 readable instructions, which, when executed by the processor, cause the processor to  
4 display a user interface on the display of the handheld communication device, which user  
5 interface includes a main screen segregated into a number of screen areas, at least one of  
6 the screen areas being devoted to a system application for displaying status icons for the  
7 handheld communication device, and another of the screen areas being devoted to a  
8 browser application for displaying current or recent application information for respective  
9 user applications, which user applications may be accessed through user interaction with  
10 the browser.

1 29. The handheld communication device of claim 28 wherein the application information  
2 comprises user application status information.

1 30. The handheld communication device of claim 28 wherein the application information  
2 comprises recent communication messages to or from the handheld communication device.

1 31. The handheld communication device of claim 30 wherein the communication  
2 messages comprise one or more of e-mail messages, short messaging service messages, or  
3 instant messaging service messages.

1 32. The handheld communication device of claim 28 wherein the application information  
2 comprises one or more upcoming events or to do items for a user of the handheld  
3 communication device.

1 33. The handheld communication device of claim 28 wherein the user interaction  
2 comprises one or more of: selection with a pointing device or selection using voice  
3 commands.

1 34. The handheld communication device of claim 33 wherein the pointing device  
2 comprises one or more of: a stylus, a fingertip stylus, a finger, or one or more buttons.

1 35. The handheld communication device of claim 28 wherein segregated comprises being  
2 divided into cascaded windows.

1 36. The handheld communication device of claim 28 wherein the status icons comprise  
2 one or more of: a logo icon, a program group icon, an application name icon, a battery life  
3 indicator icon, a current time indicator icon, a received signal strength indicator icon, a help  
4 icon, a voice mail indicator icon, an input toggle icon, a backpack software icon, or a  
5 Bluetooth icon.

1 37. The handheld communication device of claim 28 wherein the user applications  
2 comprise one or more of: communication applications, personal information management  
3 applications, personal productivity applications, multimedia applications, or game  
4 applications.

1 38. The handheld communication device of claim 37 wherein the communication  
 2 applications comprise one or more of: a telephone dialer, an e-mail application, a short  
 3 messaging service application, an Internet browser, a wireless access protocol browser, an  
 4 instant messenger application, or a Bluetooth communication application.

1 39. The handheld communication device of claim 37 wherein the personal productivity  
 2 applications comprise one or more of: a text editor, a spreadsheet, a database, an e-book  
 3 reader, an image viewer, an image editor, or an audio manager.

4 40. The handheld communication device of claim 28 wherein the browser further executes  
 5 to display advertisement information in a designated area of the application window.

1 41. The handheld communication device of claim 28 wherein different categories of user  
 2 interactions with the browser initiate different user application responses.

1 42. The handheld communication device of claim 41 wherein the different categories of  
 2 user interactions are selected from the list comprising: a single selection operation, a select  
 3 and hold operation and a double selection operation.

1 43. The handheld communication device of claim 28 wherein the current or recent  
 2 application information is displayed in respective screen areas that are navigable in a  
 3 circular fashion.

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1 44. The handheld communication device of claim 28 wherein the system application  
2 executes in a system window located at the top of a display area of the handheld  
3 communication device.

1 45. The handheld communication device of claim 44 wherein the browser executes in an  
2 application window located below the system window.

3 46. The handheld communication device of claim 45 wherein the browser loads an HTML  
4 page that includes an area reserved for displaying advertising information that is configured  
5 to display one or more of: streaming media information, flash animation information,  
6 banner ads, packet video information, gif animations, image files, or multimedia  
7 information.

1 47. The handheld communication device of claim 46 wherein the area reserved for  
2 displaying advertising information is located at the bottom of the application window.

1 48. The handheld communication device of claim 44 wherein the system window includes  
2 an area reserved for display of a logo icon.

1 49. The handheld communication device of claim 48 wherein selection of the logo icon  
2 causes a folder menu to be displayed on a display of the handheld communication device.

1 50. The handheld communication device of claim 49 wherein the folder menu includes an  
2 area reserved for a listing of recently used ones of the user applications.



- 1 51. The handheld communication device of claim 50 wherein the recently used ones of the  
2 user applications are displayed as icons within the reserved area.
- 1 52. The handheld communication device of claim 49 wherein the folder menu comprises a  
2 dropdown menu of available application groups for the handheld communication device.
- 1 53. The handheld communication device of claim 52 wherein the application groups  
2 include one or more of: an all application group, a communication application group, a  
3 multimedia application group, a personal productivity application group, a main application  
4 group that includes a personal information manager application, a games application group,  
5 a system application group, and a user personal applications group.
- 1 54. The handheld communication device of claim 53 wherein selection of one of the  
2 application groups causes a window that includes images representing those of the user  
3 applications that belong to the selected application group to be opened.
- 1 55. A method, comprising displaying, on a single screen of a user interface of a handheld  
2 communication device, system status information for the handheld communication device  
3 in a system window and application information for a number of user applications of the  
4 handheld communication device in a browser executing in an application window.
- 1 56. The method of claim 55 wherein the application information comprises user  
2 application status information.

1 57. The method of claim 55 wherein the application information comprises recent  
2 communication messages to or from the handheld communication device.

1 58. The method of claim 57 wherein the communication messages comprise one or more  
2 of e-mail messages, short messaging service messages, or instant messaging service  
3 messages.

1 59. The method of claim 55 wherein the application information comprises one or more  
2 upcoming events or to do items for a user of the handheld communication device.

1 60. The method of claim 55 further comprising selecting with a pointing device or using  
2 voice commands, an user application associated with at least a portion of the application  
3 information through interaction with the browser.

1 61. The method of claim 60 wherein the pointing device comprises one or more of: a  
2 stylus, a fingertip stylus, a finger, or one or more buttons.

1 62. The method of claim 55 wherein the system status information is conveyed through  
2 status icons comprising one or more of: a logo icon, a program group icon, an application  
3 name icon, a battery life indicator icon, a current time indicator icon, a received signal  
4 strength indicator icon, a help icon, a voice mail indicator icon, an input toggle icon, a  
5 backpack software icon, or a Bluetooth icon.

1 63. The method of claim 55 wherein the application information comprises information  
2 regarding one or more user applications chosen from the list including: communication

3 applications, personal information management applications, personal productivity  
4 applications, multimedia applications, or game applications.

1 64. The method of claim 63 wherein the communication applications comprise one or  
2 more of: a telephone dialer, an e-mail application, a short messaging service application, an  
3 Internet browser, a wireless access protocol browser, an instant messenger application, or a  
4 Bluetooth communication application.

1 65. The method of claim 63 wherein the personal productivity applications comprise one  
2 or more of: a text editor, a spreadsheet, a database, an e-book reader, an image viewer, an  
3 image editor, or an audio manager.

4 66. The method of claim 55 wherein the browser further executes to display advertisement  
5 information in a designated area of the application window.

1 67. The method of claim 55 wherein different categories of user interactions with the  
2 browser initiate different user application responses.

1 68. The method of claim 67 wherein the different categories of user interactions are  
2 selected from the list comprising: a single selection operation, a select and hold operation  
3 and a double selection operation.

1 69. The method of claim 55 wherein the current or recent application information is  
2 displayed in the browser in so as to be navigable in a circular fashion.

TEP 2014

1 70. The method of claim 55 wherein the system window is located at the top of a display  
2 area of the handheld communication device.

1 71. The method of claim 70 wherein the application window is located below the system  
2 window.

3 72. The method of claim 71 wherein the browser displays an HTML page that includes an  
4 area reserved for displaying advertising information that is configured to display one or  
5 more of: streaming media information, flash animation information, banner ads, packet  
6 video information, gif animations, image files, or multimedia information.

1 73. The method of claim 72 wherein the area reserved for displaying advertising  
2 information is located at the bottom of the application window.

1 74. The method of claim 55 wherein the system window includes an area reserved for  
2 display of a logo icon.

1 75. The method of claim 74 wherein selection of the logo icon causes a folder menu to be  
2 displayed on a display of the handheld communication device.

1 76. The method of claim 75 wherein the folder menu includes an area reserved for a listing  
2 of recently used ones of the user applications.

1 77. The method of claim 76 wherein the recently used ones of the user applications are  
2 displayed as icons within the reserved area.

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1 78. The method of claim 75 wherein the folder menu comprises a dropdown menu of  
2 available application groups for the handheld communication device.

1 79. The method of claim 78 wherein the application groups include one or more of: an all  
2 application group, a communication application group, a multimedia application group, a  
3 personal productivity application group, a main application group that includes a personal  
4 information manager application, a games application group, a system application group,  
5 and a user personal applications group.

1 80. The method of claim 79 wherein selection of one of the application groups causes a  
2 window that includes images representing those of the user applications that belong to the  
3 selected application group to be opened.

1 81. A user interface for a handheld communication device, comprising a number of screen  
2 areas, one of which is devoted to a system window in which a system application for  
3 controlling the operation of the handheld communication device executes, and another of  
4 which is devoted to an application window in which a browser executes to display an  
5 HTML-based interface page comprising current or recent application information for  
6 respective user applications of the handheld communication device.

1 82. The user interface of claim 81 wherein the system application executes to display  
2 status icons for the system operations of the handheld communication device.

1 83. The user interface of claim 82 wherein the system application further executes to  
2 permit user access to a main menu.

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1 84. The user interface of claim 82 wherein the HTML-based interface page is configured  
2 to allow for one or more of the user applications to be accessed through user interaction  
3 with the interface page.

1 85. The user interface of claim 84 wherein the user interaction comprises one or more of:  
2 selection with a stylus, selection with one or more buttons or selection through voice  
3 commands.

1 86. The user interface of claim 84 wherein the HTML interface page is linked with other  
2 interface pages.

1 87. The user interface of claim 84 wherein the HTML interface page is downloaded to the  
2 handheld communication device from a remote location.

1 88. The user interface of claim 87 wherein the remote location comprises a server.

1 89. The user interface of claim 83 wherein the main menu includes a number of  
2 application group indicators which link to dynamically generated interface pages, each of  
3 which are configured to list applications associated with a respective application group.

1 90. The user interface of claim 89 wherein the dynamically generated interface pages list  
2 applications associated with a respective application group using images representing those  
3 applications.

1 91. The user interface of claim 90 wherein through user interaction with the images,  
2 associated applications are launched by a controller.

1 92. The user interface of claim 91 wherein the application groups comprise one or more  
2 of: an all application group, a communication application group, a multimedia application  
3 group, a personal productivity application group, a main application group that includes a  
4 personal information manager application, a games application group, a system application  
5 group, and a user personal applications group.

1 93. The user interface of claim 92 wherein the communication application group comprises  
2 one or more of: a telephone dialer, an e-mail application, a short messaging service  
3 application, an Internet browser, a wireless access protocol browser, an instant messenger  
4 application, or a Bluetooth communication application.

1 94. The user interface of claim 92 wherein the personal productivity applications comprise  
2 one or more of: a text editor, a spreadsheet, a database, an e-book reader, an image viewer,  
3 an image editor, or an audio manager..